

JULIAN KLUG

ACADEMIC CURRICULUM

University of Geneva	Switzerland
Post-Doc Research Fellow	Since 2025
Doctorate in Human Medicine	2020-2025
Bachelor & Master of Medicine	2013-2020

MEDICAL CURRICULUM

Lausanne University Hospital	Switzerland
Resident, Critical Care Medicine	Since 2024
Hôpital Foch	France
Resident, Critical Care Medicine	2024
Kantonsspital St. Gallen	Switzerland
Resident, Anaesthesiology and Critical Care Medicine	2022-2024
GHOL - Hospital Nyon	Switzerland
Resident, Internal, Emergency and Critical Care Medicine	2020-2022

PAST WORK EXPERIENCE

Founder	Switzerland
Vlynt, Distributed content delivery network for server load balancing	2016-2019

EXTRA-CURRICULAR POSITIONS

Research program for medical students	Harvard University, USA
Lee Lab, Eaton-Peabody Laboratories, Massachusetts Eye & Ear Infirmary	2016 & 2017
External consultant , Division for foreign economic policy	Berlin, Germany
Federal Foreign Office	October-December 2016
Research program for medical students	Geneva University, Switzerland
Laboratory for neurology and imaging of cognition	July-August 2015

DISTINCTIONS

Vasco Sanz Award	Geneva, Switzerland
for the work on "Dynamic prediction of functional recovery after a stroke"	2025
Best Poster Award	Geneva, Switzerland
Innovation centre, HUG	2019
Finalist , START	Lausanne, Switzerland
Entrepreneurial contest	2017
Gold medallist	France
French national Geoscience Olympics	2012

PEER-REVIEWED PUBLICATIONS

Klug, J, Roelz, R, Cossu, G et al. CSF diversion after aneurysmal sub-arachnoid hemorrhage: towards personalized treatment strategies. *Crit Care*, 2025.

Pietsch U, Satari B, **Klug J**, et al. Glasgow coma scale score before prehospital tracheal intubation in trauma vs. nontrauma patients: A multicentre retrospective observational study. *Eur J Anaesthesiol*. Published online August 25, 2025.

Genecand L, Simian G, Lichtblau M, Fellrath JM, **Klug J**, Turbé H, Lovis C, Noble S, Wacker J, Müller J, Desponds R, Beghetti M, Lechartier B, Montani D, Sitbon O, Ulrich S, Lador F. The Impact of Cardiac Output Methods on the Classification of Pulmonary Hypertension. *Pulm Circ*. 2025 Jun 19;15(2):e70112.

Dirren E, **Klug J**, Jarne C, Vidaurre D, Carrera E. Determinants of brain network resilience after stroke. *Brain communications* vol. 7,3 fcacf218. 6 Jun. 2025.

Klug J, Cortier D, Wolf S, Carrera E, Cerf C, Pietsch U. Effect of extended intravenous diclofenac infusions on brain tissue oxygenation in patients with acute brain injury. *Intensive Care Med Exp*. 2025;13(1):50.

Dirren E, Escribano Paredes JB, **Klug J**, Barthoulot M, Fluss J, Fracasso T, Kurian GK, Machi P, Niederhauser J, Suppan L, Sztajzel RF, Bijlenga P, Carrera E. Stroke Incidence, Case Fatality, and Mortality Using the WHO International Classification of Diseases 11: The Geneva Stroke Study. *Neurology*. 2025 Mar 11;104(5):e213353

Klug J, Leclerc G, Dirren E, Carrera E. Machine learning for early dynamic prediction of functional outcome after stroke. *Nature Communications Medicine*. 2024 Nov 13;4(1):232.

Klug J, Martins J, De Trizio I, Carrera E, Filipovic M, Hostettler IC, Pietsch U. Dynamically Normalized Pupillometry for Detecting Delayed Cerebral Ischemia After Aneurysmal Subarachnoid Hemorrhage. *Critical Care Explorations*. 2024 Jul 31;6(8):e1135.

Klug J, Pietsch U. Can artificial intelligence help for scientific illustration? Details matter. *Critical Care* 2024. 28, 196.

Klug J, Van Asche M, Dirren E, Richiardi J, Carrera E. Preparing for a second attack: a lesion simulation study on network resilience after stroke. *Stroke*. 2022; 2038-2047.

Paredes J, Salerno A, **Klug J**, Dirren E, Sanda N, Bonvin C, Dunet V, Vargas M, Saliou G, Machi P, Michel P, Carrera E. Intravenous rtPA before thrombectomy vs thrombectomy alone in strokes with unknown time of onset. *Stroke*. 2022. e136-e138.

Dirren E, Bourgeois A, **Klug J**, Kleinschmidt A, van Assche M, Carrera E. The neural correlates of intermanual transfer. *NeuroImage* 2021;118657.

Klug J, Mach B, Racine G, Moret Bochatay M. Covid-19 : ne pas mettre la charrue avant les bœufs [COVID-19: Do not put the cart before the horse]. *Rev Med Suisse* 2021;17(754):1749–52.

Bourcier S, **Klug J**, Nguyen Lee S. Non-occlusive mesenteric ischemia: Diagnostic challenges and perspectives in the era of artificial intelligence. *World J Gastroenterol* 2021;27(26):4088–103.

Klug J, Leclerc G, Dirren E, Preti MG, Van De Ville D, Carrera E. Bayesian Skip Net: Building on Prior Information for the Prediction and Segmentation of Stroke Lesions. In: Crimi A, Bakas S, editors. *Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries*. Cham: Springer International Publishing; 2021. p. 168–80.

Klug J, Dirren E, Preti MG, et al. Integrating regional perfusion CT information to improve prediction of infarction after stroke. *J Cereb Blood Flow Metab* 2021;41(3):502–10.

Bègue I, Blakemore R, **Klug J**, et al. Metacognition of visuomotor decisions in conversion disorder. *Neuropsychologia* 2018;114:251–65.

Tarabichi O, Kanumuri VV, **Klug J**, et al. Three-Dimensional Surface Reconstruction of the Human Cochlear Nucleus: Implications for Auditory Brain Stem Implant Design. *J Neurol Surg B Skull Base* 2020;81(2):114–20.